## ABSTRACT

A positioning system includes a command signal generator, a subject module, a plurality of sensor modules, and a plurality of counters. A comparator compares the plurality of increments and generate a plurality of counter differential values; and a correlator correlates the plurality of counter differential values to determine a subject location in the defined space.

A method for locating a subject includes transmitting a signal to a subject unit; transmitting a signal to slave units located within the defined three-dimensional space, such that each slave unit starts a 1 GHz counter; transmitting a subject signal from the subject unit; stopping said counters; determining net counter values; comparing the net counter values to determine counter difference values; and correlating said counter difference values to determine a subject unit location in the three-dimensional space.